

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-11 (cancelled)

Claim 12 (new): A reciprocating piston compressor (100), comprising a swivel disk (107) having an annular shape, that is rotated by a drive shaft (104) and is positioned at an adjustable angle with respect to said drive shaft (104),

said swivel disk (107) connected in an articulated manner to sliding sleeve (108) that is selectively moved axially along said drive shaft (104) as well as to at least one rounded supporting element (109) so disposed that it is spaced apart from and connected to said drive shaft (104) by way of a L-shaped rod-like force transmission element (114) having a free end connected to said supporting element (109) and having a limb (126) extending approximately parallel to said drive shaft (104) and supported axially against a bearing plate (127), and rotates therewith,

a piston (106) comprises a joint arrangement (110) with which said swivel disk (107) is in sliding engagement,

said swivel disk (107) having a slot (115) disposed proximate its circumferential edge,

said slot (115) having a radial axis and a longer axis perpendicular to said radial axis with a portion of said supporting element (109) disposed within said slot (115),

whereby the articulated connection (116) between drive shaft (104) and swivel disk (107) serves substantially only to transmit torque, and said supporting element (109) serves substantially only to provide axial support to said piston (106) and hence to absorb the force exerted by the gas.